

# Nerve Growth Factor Receptor Antibody

## Datasheet

For Research Use Only

Description	Catalog No.	Size
Nerve Growth Factor Receptor Concentrate	FP-A031-01	0.1 ml
Nerve Growth Factor Receptor Concentrate	FP-A031-10	1 ml
Nerve Growth Factor Receptor Predilute	FP-A031-70	7 ml

## Description

Nerve Growth Factor Receptor (NGFR), also known as p75, P-75NTR or CD271, is a neurotrophin receptor belonging to the tumor necrosis factor receptor family. NGFR is expressed mainly in Schwann cells and neurons, as well as a number of other non-neuronal cell types, and functions during central and peripheral nervous system development to regulate neuronal growth, migration, differentiation, and cell death. Nerve Growth Factor Receptor is also expressed in melanocytes, melanomas, neuroblastomas, pheochromocytomas, neurofibromas, neurotized nevi (type C melanocytes), and other neural crest cell or tumor derivatives. It has been suggested that NGFR may act as a tumor suppressor indicated in prostate and urothelial cancer, and Anti-Nerve Growth Factor Receptor (NGFR) is often used in adjunct with S100, to aid in the diagnosis of desmoplastic and neurotrophic malignant melanomas. Anti-NGFR is also useful as an aid in the diagnosis of breast malignancy, as the antibody labels the myoepithelial cells of breast ducts and intralobular fibroblasts of breast ducts.

## Specifications

Clone	IHC637
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

## IHC Procedure\*

Positive Control Tissue	Breast
Dilution Range	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the corresponding user manual for detection system

## Result

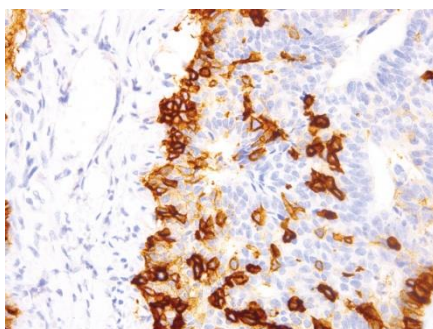


Figure. Nerve Growth Factor Receptor (NGFR) on Cervix.

## Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

## Precautions

**The product is for research use only.** Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

## References

1. **Radfar A**, et al. "Radfar A, et al. Am J Dermatopathol. 2006; 28:162-7." Am J Dermatopathol. 2006; 28:162-7.
2. **Kaplan DR**, et al. "Signal transduction by the neurotrophin receptors." Curr Opin Cell Biol. 1997; 9:213-21.
3. **Bunone G**, et al. "Induction of apoptosis by p75 neurotrophin receptor in human neuroblastoma cells." Oncogene. 1997; 14:1463-70.
4. **Kanik AB**, et al. "p75 nerve growth factor receptor staining helps identify desmoplastic and neurotropic melanoma." J Cutan Pathol. 1996; 23:205-10.
5. **Laskin WB**, et al. "The "neurothekeoma": immunohistochemical analysis distinguishes the true nerve sheath myxoma from its mimics." Hum Pathol. 2000; 31:1230-41.
6. **Lewis Kelso R**, et al. "p75(NGFR) immunostaining for the detection of perineural invasion by cutaneous squamous cell carcinoma." Dermatol Surg. 2006; 32:177-83.
7. **Liang Y**, et al. "Light and electron microscopic demonstration of the p75 nerve growth factor receptor in normal human cutaneous nerve fibers: new vistas." J Invest Dermatol. 1998; 111:114-8.
8. **Liang Y**, et al. "Histamine-containing mast cells and their relationship to NGFr-immunoreactive nerves in prurigo nodularis: a reappraisal." J Cutan Pathol. 1998; 25:189-98.
9. **Liang Y**, et al. "Light and electron microscopic immunohistochemical observations of p75 nerve growth factor receptor-immunoreactive dermal nerves in prurigo nodularis." Arch Dermatol Res. 1999; 291:14-21.

## Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to [femtopath@hongjing.com.tw](mailto:femtopath@hongjing.com.tw) for assistance with more questions regarding this product.